

IN THE CLAIMS

Applicant again amends the Claims as follows:

5. (Twice Amended) A selectable waveguide having a first position and a second position for respectively communicating first or second signals from an antenna feed to respective first and second probes, the selectable waveguide comprising,

an antenna feed port coupled to the antenna feed for communicating the signals between the antenna feed and the first and second probes,

a first waveguide section having a first shape and a first cross-section for coupling to the antenna feed port for communicating the first signal, the first shape is straight,

a first port for coupling the first probe to the first waveguide section for communicating the first signal between the first probe and the first waveguide section,

a second waveguide section having a second shape and a second cross-section for coupling to the antenna feed port for communicating the second signal, the second shape is bent at ninety degrees with a forty-five degree reflective surface,

a second port for coupling the second probe to the second waveguide section for communicating the second signal between the second probe and the second waveguide section, [the first and the second shapes are selected from the group consisting of straight and bent at ninety degrees with a forty-five degree reflective surface,] the first and second cross sections are selected from the group consisting of square and circular, the first and second

1 shapes and the first and second cross sections enable concurrent
2 isolated communications of the first and second signals through
3 either one of the first and second waveguide sections when the
4 first and second signals are orthogonally polarized respecting each
5 other, and

6 an element for supporting the first and second waveguide
7 sections, the element having a first position for communicating the
8 first signal between the antenna feed port through the first
9 waveguide section to the first port, the element having a second
10 position for communicating the second signal between the antenna
11 feed port through the second waveguide section to the second port.

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13 6. (Twice Amended) The selectable waveguide of claim 5 wherein,

14 the element is a rotating element,

15 the first signal is a first polarized signal,

16 the first waveguide shape is straight,

17 the second signal is a second polarized signal,

18 the second waveguide shape is bent at ninety degrees having a
19 forty-five degree reflective surface, and

20 the selectable waveguide is for selecting the communication[g]
21 of either the first or second polarized signals, wherein the first
22 and second polarized signals being orthogonal [respecting] with
23 respect to each other.

1 8. (Twice Amended) A selectable waveguide having a first position
2 and a second position for respectively communicating first or
3 second signals from an antenna feed to respective first and second
4 probes, the selectable waveguide comprising,
5 an antenna feed port coupled to the antenna feed for
6 communicating the signals between the antenna feed and the first
7 and second probes,
8 a first waveguide section having a first shape and a first
9 cross-section for coupling to the antenna feed port for
10 communicating the first signal, the first shape is straight,
11 a first port for coupling the first probe to the first
12 waveguide section for communicating the first signal between the
13 first probe and the first waveguide section,
14 a second waveguide section having a second shape and a second
15 cross-section for coupling to the antenna feed port for
16 communicating the second signal, the second shape is bent at ninety
17 degrees with a forty-five degree reflective surface,
18 a second port for coupling the second probe to the second
19 waveguide section for communicating the second signal between the
20 second probe and the second waveguide section, the first and second
21 cross sections are selected from the group consisting of square and
22 circular, the first and second shapes and the first and second
23 cross sections enable concurrent isolated communications of the
24 first and second signals through either one of the first and second
25 waveguide sections when the first and second signals are
26 orthogonally polarized respecting each other, and
27 an element for supporting the first and second waveguide
28 sections, the element having a first position for communicating the

1 first signal between the antenna feed port through the first
2 waveguide section to the first port, the element having a second
3 position for communicating the second signal between the antenna
4 feed port through the second waveguide section to the second port,

5 [The selectable waveguide of claim 5] wherein:,

6 the second signal comprises a high frequency signal and a low
7 frequency signal[,];

8 the reflective surface is a frequency selective reflective
9 surface for reflecting the low frequency signal to the second port
10 and for passing the high frequency signal to the first port[,]; and

11 the second waveguide section comprises a waveguide extension
12 extending from the frequency selective reflective surface and the
13 first port for communicating the high frequency signal to the first
14 probe through the first port when the selectable waveguide is in
15 the second position.

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